

Lockheed Martin Idaho Technologies Company**INTERDEPARTMENTAL COMMUNICATION**

Date: August 26, 1999

To: D. J. Kuhns MS 3920 6-8226

From: T. E. Sivill MS 3655 6-9273

Subject: WAG 1 OU 1-10 INSTITUTIONAL CONTROL SITES COST ESTIMATE -
TES-07-99

Cost Estimating has provided a Planning Cost Estimate for the project referenced above. Costs are summarized in a similar format to the RI/FS estimate for comparison purposes.

Costs are based on information and guidance provided by program personnel. The attached recapitulation sheet outlines the general scope and assumptions for the estimate referenced above. Costs have been presented in FY 99 dollars, escalated dollars and discounted to reflect a net present value for comparison purposes.

Should you have any questions, please contact Terry Sivill, ID-TES or 526-9273.

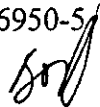
TES

Attachments

cc: C. L. Reese, MS 3130
T. E. Sivill File
Estimate File 6950-5



COST ESTIMATE SUPPORT DATA RECAPITULATION

Project Title: WAG 1 OU1-10 INSTITUTIONAL CONTROL SITES
DRAFT ROD ESTIMATE
Estimator: TES/KLS
Date: 8-25-99
Estimate Type: PLANNING
File: 6950-5
Approved By: 

I. **SCOPE OF WORK:** *Brief description of the proposed project.*

Prepare a Rough Order of Magnitude Planning Cost Estimate for the above mentioned project. The estimate focuses on TAN WAG 1 – Institutional Control Sites. This estimate provides added and cost to the RI/FS Cost Estimate, dated 9/8/97. New scoping requirements were provided to cost estimating the week of 8-20-99.

The new sites include:

TSF05/TSF-23.....Maintenance and inspection only
TSF-06, Area 1.....New signs, fencing, maintenance and monitoring
TSF-06, Area 5.....New signs, fencing, maintenance and monitoring
TSF-06, Area 11.....New signs, fencing, maintenance and monitoring
TSF-10.....New signs, fencing, maintenance and monitoring
TSF-28.....New signs, fencing, sampling, maintenance and monitoring
TSF-29.....New signs, fencing, maintenance and monitoring
WRRTF-05.....New signs, fencing, sampling, maintenance and monitoring

II. **BASIS OF THE ESTIMATE:** *Drawings, Design Report, Engineers Notes and/or other documentation upon which the estimate is originated.*

The WAG 1 OU1-10 RI/FS REMEDIAL ALTERNATIVES Cost Estimate, dated 9-8-97.

Scoping and assumptions outline provided by the ER project engineer.

Coordination meeting with WAG 1 program management team.

III. **ASSUMPTIONS:** *Conditions statements accepted or supposed true without proof of demonstration. An assumption has a direct impact on total estimated cost.*

Program Management involvement is targeted for a one to two year duration. Costs have been included for one year full-time effort.

All documentation costs have been excluded. It is assumed all documentation and plans developed for the WAG 1-10 will define any requirements for the Institutional Control sites.

COST ESTIMATE SUPPORT DATA RECAPITULATION

- Continued -

Project Title: WAG 1 OUI-10 INSTITUTIONAL CONTROL SITES
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Remedial Action activities assume a one year duration for installation of all fencing and signage installation.

All post hole excavation will be done in non-contaminated soils.

It is assumed no site drainage or site preparation is required at any of the sites.

Fencing shall be constructed with metal posts and (3) wire strands to a height of 5'-0" above grade with signs posted approximately 100 linear feet. One vehicle access gate has been included per site.

Remedial Action - Operations are assumed a duration for a 100 year period. Activities include Program Management, 5 Yr. Reviews, Continued New Construction Caretaker/Maintenance and Surveillance and Monitoring.

Site TSF-28 assumes initial sampling during remedial action. An allowance of 33 soil samples with analysis for gross alpha/beta analysis has been included. Site WRRTF-05 assumes initial analysis of a single well. An allowance of 6 samples have been included for radiological and organic analysis.

No sampling and analysis requirements or cost have been included for out-year surveillance and monitoring..

- IV. **CONTINGENCY GUIDELINE IMPLEMENTATION:** *The percentage used for contingency as determined by the contingency allowance guidelines can be altered to reflect the type of construction and conditions that may impact the total estimated cost.*

Contingency has been included at 30% remaining consistent with the existing RI/FS estimates being used for the Record of Decision.

- V. **OTHER COMMENTS/CONCERNS SPECIFIC TO THE ESTIMATE**

The estimate has been prepared with less than 5% scope definition.

SUMMARY COST ESTIMATE SHEET

Rev 10-96

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Project WAG-1 OU 1-10 IC Sites DRAFT ROD COST ESTIMATE
INSTITUTIONAL CONTROL (IC) SITES

Location TAN - INEEL

Requester D. J. KUHNS

Type of Est. PlanningDate 08/26/99Prep'd By TES/KLSFile No. 6950-5Checked By KLS

ACCT. NO.	DESCRIPTION	INSTITUTIONAL CONTROLS (IC)					
	CAPITAL COST SUBTOTAL	347,578					
	Contingency @ 30%	104,274					
	TOTAL CAPITAL COST IN CURRENT YEAR DOLLARS	451,853					
	TOTAL CAPITAL COST IN ESCALATED DOLLARS	479,441					
	TOTAL CAPITAL COST IN NET PRESENT VALUE	427,885					
	O&M COST SUBTOTAL	1,478,000					
	Contingency @ 30%	443,700					
	TOTAL O&M COST IN CURRENT YEAR DOLLARS	1,922,700					
	TOTAL O&M COST IN ESCALATED DOLLARS	12,176,077					
	TOTAL O&M COST IN NET PRESENT VALUE	757,243					
	TOTAL PROJECT COST IN CURRENT YEAR DOLLARS	2,374,553					
	TOTAL PROJECT COST IN ESCALATED DOLLARS	12,654,518					
	TOTAL PROJECT COST IN NET PRESENT VALUE	1,185,128					

SUMMARY OF DETAILED COST ESTIMATE

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Project WAG-1 OU 1-10 IC Sites DRAFT ROD COST ESTIMATE

Type of Est.

Planning

File No. 6950-5

08/26/99

INSTITUTIONAL CONTROL (IC) SITES

TES/KLS

Location TAN - INEEL

Requester D. J. KUHN

ACCT. NO.	DESCRIPTION	INSTITUTIONAL CONTROLS (IC)	
ER1220	FFA/CO Management and Oversight		
	Program Management	125,000	
	RA Document Preparation		
	RD/RA SOW	NA	
	RA Workplan	NA	
	Packaging, Shipping, Trans. Documentation	NA	
	Remedial Action Report	NA	
	WAG-Wide RA - 5 Yr. Reviews	NA	
	RD Documentation Preparation		
	Safety Analysis Documentation (ASA & HSP)	NA	
	Sampling and Analysis Plan	NA	
	Pre-Final Inspection Report	NA	
ER1210	Remedial Design		
	Added Institutional Controls - Deed Restrictions	32,000	
	Title Design Construction Document Package	58,300	
ER1230	Remedial Action - Construction Subcontract		
	Site Characterization	17,150	
	Construction Subcontract	94,323	
	Project/Construction Management	20,807	
	TOTAL CAPITAL COST	347,679	
ER1230	Remedial Action - Operations (100 Year Duration)		
	Program Management	846,000	
	5 Yr. Review For 100 Years	180,000	
	Added Institutional Controls - 5 Yr. Review For 100 Years	NA	
	Continued/New Construction Caretaker/Maintenance	453,000	
	Operations, Maintenance, Materials, and Disposal	NA	
ER2000	D&D of Facilities	NA	
ER1310	Surveillance and Monitoring	NA	
	TOTAL OPERATIONS COST (100 YEARS)	1,479,000	

Lockheed Martin Idaho Technologies Co.

Project WAG-1 OU 1-10 IC Sites DRAFT ROD COST ESTIMATE

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D. J. KUHN

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Lockheed Martin Idaho Technologies Co.

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Project

WAG-1 OU 1-10 IC Sites DRAFT ROD COST ESTIMATE

INSTITUTIONAL CONTROL (IC) SITES

TAN - INEEL

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